

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

08/28/2002

Fay Kaplum & Marcin, LLP 150 Broadway Suite 702 New York, NY 10038

EX.	AMINER	
LEE, HWA S		
ART UNIT CLASS-SUBCLASS		
2877	313-570000	

DATE MAILED: 08/28/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/058,666	01/28/2002	Bernard J. Eastlund	50109/00203	4858

TITLE OF INVENTION: HIGH INTENSITY DISCHARGE LAMP WITH SINGLE CRYSTAL SAPPHIRE ENVELOPE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$640	\$300	\$940	11/29/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
 See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231 Fax (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block I, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notification		, (., -,	,			
	E ADDRESS (Note: Legibly mar 90 08/28/200	rk-up with any corrections or use B 2	Slock 1)	Fee(s) Transmit	te of mailing can only be used for tal. This certificate cannot apers. Each additional paper, s must have its own certificate of n	be used for any other such as an assignment or
150 Broadway Suite 702 New York, NY 100				I hereby certify United States Po- envelope address transmitted to the	Certificate of Mailing or Tran- that this Fee(s) Transmittal is stal Service with sufficient posta ed to the Box Issue Fee address USPTO, on the date indicated b	being deposited with the ge for first class mail in an above, or being facsimile
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	FIRS	T NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/058,666	01/28/2002		Bernard J. Eastlun	d	50109/00203	4858
TITLE OF INVENTION: H	GH INTENSITY DISCI	HARGE LAMP WITH SI	NGLE CRYSTAL	SAPPHIRE ENV	ELOPE	
APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBL	CATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$640	•	\$300	\$940	11/29/2002
EXAMI	ICD .	ART UNIT	CLASS-SUBCI	ASS		
LEE, HV		2877	313-57000			
1. Change of corresponden CFR 1.363). Change of corresponden Address form PTO/SB/12 "Fee Address" indicating PTO/SB/47; Rev 03-02 of Number is required. 3. ASSIGNEE NAME AND PLEASE NOTE: Unless as been previously submitted (A) NAME OF ASSIGNED Please check the appropriate 4a. The following fee(s) are Issue Fee Publication Fee Advance Order - # of C	ce address or indication of the central address (or Change of the central address) attached. On (or "Fee Address" Indicated attached. RESIDENCE DATA To a assignee is identified by the USPTO or is being a sasignee category or categories.	of "Fee Address" (37 of Correspondence lication form Use of a Customer O BE PRINTED ON THE below, no assignee data wig submitted under separate (B) RE egories (will not be printed 4b. Pay A ch	2. For printing the names of u or agents OR, single firm (ha attorney or agreeistered pater is listed, no name PATENT (print of ill appear on the prover. Completic SIDENCE: (CITY) and on the patent) yment of Fee(s): neck in the amountment by credit care. Commissioner is it Account Number	on the patent from p to 3 registered p alternatively, (2) aving as a membernt) and the name at attorneys or agence will be printed. Type) Datent. Inclusion of this form is N Y and STATE OR Community and STATE or the fee(s) is end. Form PTO-2038 thereby authorized or the statement of the fee(s) are the statement of the fee(s) is end.	the name of a term are gistered es of up to 2 this. If no name a saignee data is only appropria OT a substitute for filing an assigneed to country the country of the country of the country the country of the country	group entity government group entity government credit any overpayment, to form).
NOTE; The Issue Fee and other than the applicant; interest as shown by the retain obtain or retain a benefit application. Confidentiality estimated to take 12 minut completed application for case. Any comments on suggestions for reducing the Patent and Trademark Off NOT SEND FEES OR Commissioner for Patents,	a registered attorney or cords of the United States tion is required by 37 Cby the public which is to is governed by 35 U.S. es to complete, including the text of the USPICO Time.	quired) will not be accept agent; or the assignee o s Patent and Trademark O CFR 1.311. The informatic of file (and by the USPTC C. 122 and 37 CFR 1.14. To g gathering, preparing, an	on is required to to process) an This collection is d submitting the			

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
WWW.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/058,666	01/28/2002	Bernard J. Eastlund	50109/00203 4858	
75	90 08/28/2002		EXAMINI	ER
Fay Kaplum & M			LEE, HW	'A S
150 Broadway Suite 702			ART UNIT	PAPER NUMBER
New York, NY 100	38		2877	
			DATE MAILED: 08/28/2002	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/058,666 01/28/2002		Bernard J. Eastlund	50109/00203	4858
. 7:	590 08/28/2002		EXAMIN	ER
Fay Kaplum & M	Iarcin, LLP		LEE, HW	'A S
Suite 702	•		ART UNIT	PAPER NUMBER
New York, NY 100 UNITED STATES			2877	
			DATE MAILED: 08/28/2002	

Notice of Possible Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there may be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of any fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)		
	10/058,666	EASTLUND ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Andrew H. Lee	2877		
The MAILING DATE of this communication apperation apperation allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS		
1. This communication is responsive to 6/7/02.				
2. The allowed claim(s) is/are 1-38.				
3. The drawings filed on are accepted by the Examine				
 4. ☐ Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: 				
 Certified copies of the priority documents have 				
Certified copies of the priority documents have				
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the		
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:		<u> </u>		
5. Acknowledgment is made of a claim for domestic priority u	nder 35 U.S.C. § 119(e) (to a provis	ional application).		
(a) The translation of the foreign language provisional a	application has been received.			
6. Acknowledgment is made of a claim for domestic priority u	nder 35 U.S.C. §§ 120 and/or 121.			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of 7. A SUBSTITUTE OATH OR DECLARATION must be subm	this application. THIS THREE-MO	NIH PERIOD IS NOT EXTENDABLE.		
INFORMAL PATENT APPLICATION (PTO-152) which gives reas	son(s) why the oath or declaration is	deficient.		
 8. ☐ CORRECTED DRAWINGS must be submitted. (a) ☐ including changes required by the Notice of Draftsper 1) ☐ hereto or 2) ☐ to Paper No 				
(b) ☐ including changes required by the proposed drawing correction filed, which has been approved by the Examiner.				
(c) ☐ including changes required by the attached Examine	r's Amendment / Comment or in the	Office action of Paper No		
Identifying indicia such as the application number (see 37 CFR 1 of each sheet. The drawings should be filed as a separate paper	I.84(c)) should be written on the drawi r with a transmittal letter addressed to	ings in the top margin (not the back) the Official Draftsperson.		
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR T	OSIT OF BIOLOGICAL MATERIAL THE DEPOSIT OF BIOLOGICAL MA	must be submitted. Note the ATERIAL.		
Attachment(s)				
 1 Notice of References Cited (PTO-892) 3 Notice of Draftperson's Patent Drawing Review (PTO-948) 5 Information Disclosure Statements (PTO-1449), Paper No. 3 7 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4☐ Interview Summ 6☐ Examiner's Am	tement of Reasons for Allowance		
		And + A and 6/25/or		

Application/Control Number: 10/058,666

Art Unit: 2877

DETAILED ACTION

Terminal Disclaimer

1. The terminal disclaimer filed on 6/7/02 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US Patent Application 09/241,011 filed February 1, 1999 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Oleg Kaplun on 6/11/02.

The application has been amended as follows:

Cancel claims 39 and 40.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance: In view of the entry of said terminal disclaimer, the application is allowable because the prior art of record, taken alone or in combination, fails to disclose or render obvious a high intensity discharge lamp comprising a lamp bulb envelope composed of single crystal sapphire tubing, the envelope

Application/Control Number: 10/058,666

Art Unit: 2877

quickly as possible.

having a tubular burst pressure of at least 4,500 psi at 1,400 degrees Celsius and a maximum tensile strength of 56,000 psi at 1,400 degrees Celsius, the envelope being substantially cylindrical and having an inner diameter of between 1 mm and 25 mm and an outer diameter of at least 2mm, in combination with the rest of the limitations of claim.

Page 3

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Papers related to this application may be submitted to Technology Center (TC) 2800 by facsimile transmission. Papers should be faxed to TC 2800 via the PTO Fax Center located in CP4-4C23. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CP4 Fax Center numbers are 703-872-9318 for regular communications and 703-872-9319 for After Final communications

If the Applicant wishes to send a Fax dealing with either a Proposed Amendment or for discussion for a phone interview then the fax should:

- a) Contain either the statement "DRAFT" or "PROPOSED AMENDMENT" on the Fax Cover Sheet; and
- b) Should be unsigned by the attorney or agent.

 This will ensure that it will not be entered into the case and will be forwarded to the examiner as

Art Unit: 2877

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Hwa Lee whose telephone number is (703) 305-0538.

The examiner can normally be reached on M-Th. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on 703-308-4881.

Andrew Lee

Patent Examiner

Art Unit 2877

June 25, 2002/ahl

Frank Font

Supervisory Patent Examiner

Art Unit 2877